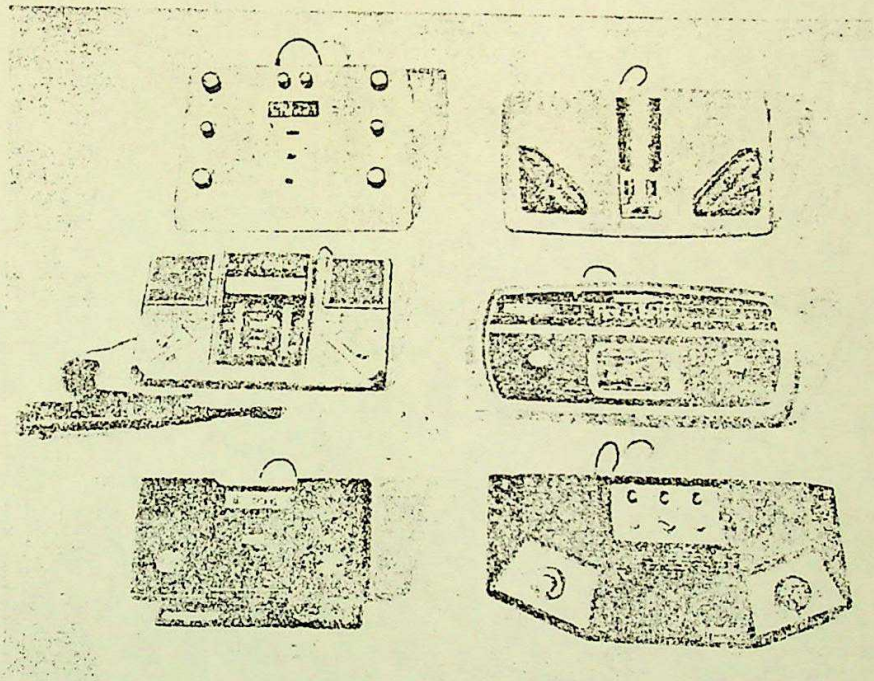
ELECTRONIC GAMES Box

TV games
turn your set into a sports arena

Tennis, hockey, handball, skeet—electronic wizardry lets you play 'em all

By WILLIAM J. HAWKINS



Four years ago when the first TV game was introduced, a lot of people thought it was nothing more than a gimmick.

Some gimmick.

Manufacturers sold about $250-million worth of TV games last year, and by 1980 they expect sales figures to triple that amount. In fact, electronics marketing experts predict that home video games may even outrun the spectacular sales of pocket calculators, digital watches, and CB radios. Manufacturers obviously agree: About a dozen brands are now available (at the time of this writing) and another 30 or so are awaiting FCC approval.

Prices range from $60 to $120, depending on the type of game, the number of games one unit offers, handicap controls, and whether the game has different sound effects accompanying every swat, bounce, miss, and ricochet occurring during play. Most games are displayed in black and white on the screen, but some are in color.

Tennis, everyone?

Tennis, in one form or another, is basic to all units, as it was to the first video game, Odyssey from Magnavox, which made its debut about four years ago. Recently, Atari decided that two can play the same game and introduced Pong, a table-tennis match. Pong may have marked the turning point in the wide acceptance of video games because of the additions Atari made: sound, on-screen digital scoring, color—and a notable sales outlet, the giant Sears chain.

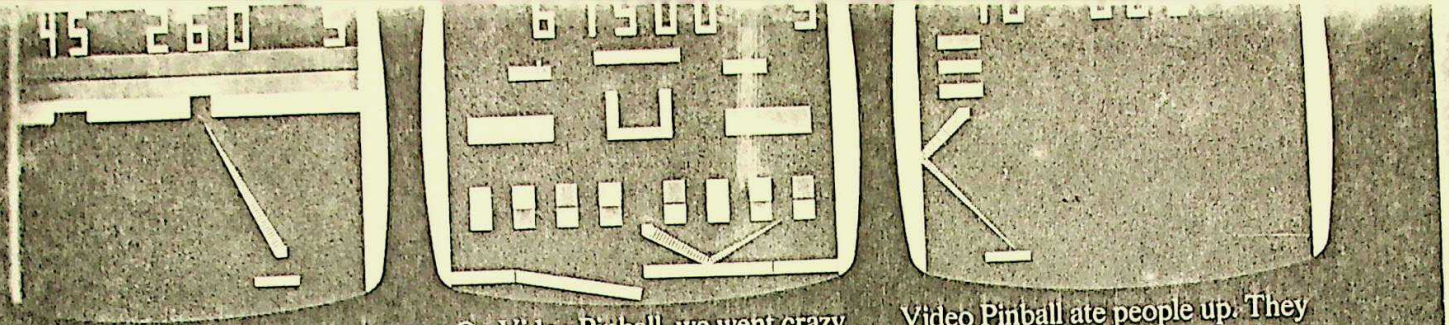
But it was just a beginning. Microcircuits, borrowed from pocket-calculator technology, made for versatility in the electronics package: Hockey, handball, and tennis doubles (for two or four players) began to appear on other games offered by new manufacturers. Now makers are offering a single box that allows you to play several games—at selectable skill levels—with the push of a button.

First Dimension, for example, lets you play Robot, a game that pits you against an automated moving paddle that usually blocks the goal. In its hockey and tennis games, you can play with two or four players; since the speed of the volley from each court is variable, one team can be handicapped if necessary. And if you like the idea of competing against a machine, Coleco's handball court has you bouncing a ball against an electronic backboard for practice. Miss on the return, and you lose a point.

Unisonics has six different games you can play, including skeet and targets: A moving target randomly passes across the picture tube and you shoot at it with your remote electronic gun.

Aim, pull the trigger, and if you're on target, you'll hear a "bang" from the speaker. You get 15 shots per game, after which your score of hits is displayed on the screen.

 NOV. 1976



...y the company who invented ... could have masterminded ...o Pinball!™ This game is so addic- ...'s diabolical. From consumer ...sting and from our knowledge ...operated video games, we ...al people's competitive spirit ...s out when they're challenged. ...or lose, they simply have to play ...ame again. And again. ...d again.

On Video Pinball, we went crazy. There are so many game options, the consumer will never get bored. It would take a "pinball wizard" to win consistently.

Seven jawbuster games, all in color on color TV, make up Video Pinball. Four excruciatingly difficult pinball games, two competitive rebound basketball games, and Breakout.™ People kicked walls and screamed uncivilized noises when we consumer tested these games and confirmed what we already knew.

Video Pinball ate people up. They loved it by a two-to-one margin over any other game that will be out this year.

In fact, Atari Video Pinball is going to be the number one seller in video games this year. And next year, remember who told you.

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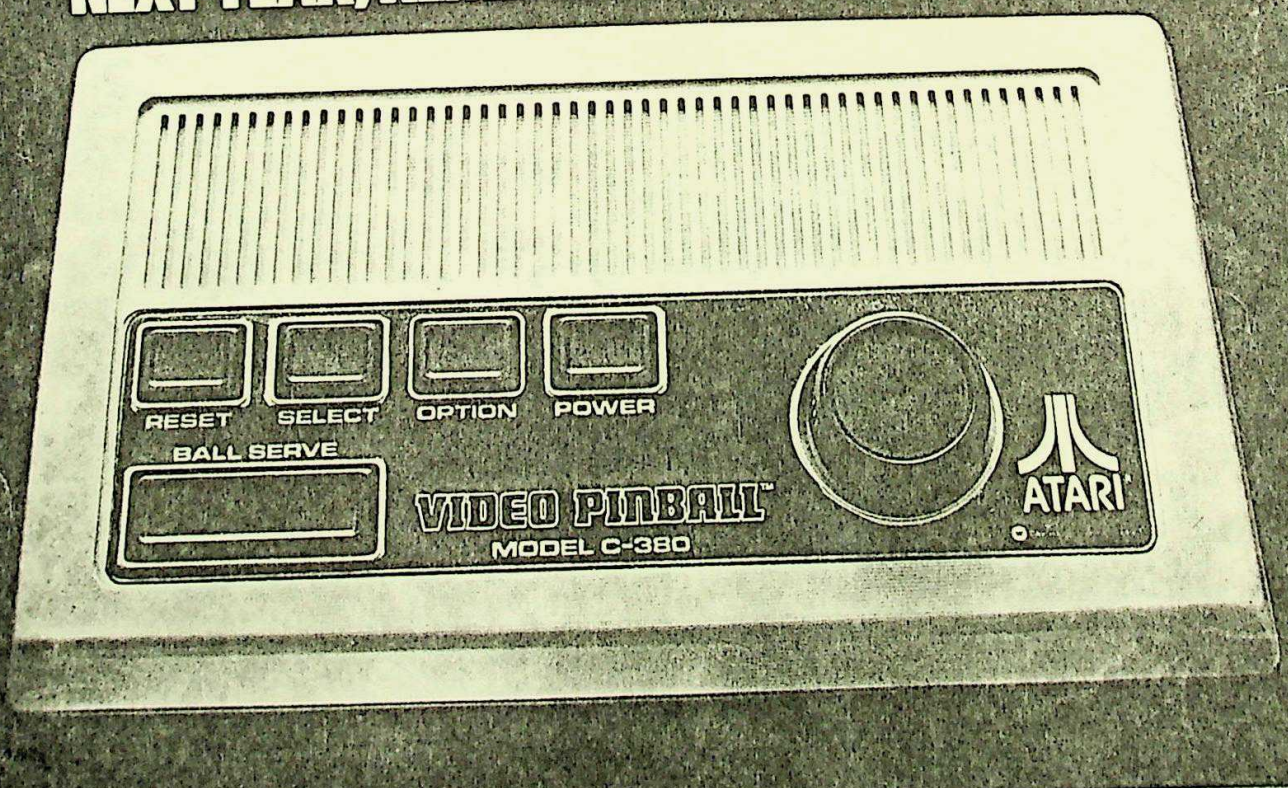
VIDEO PINBALL.
NEXT YEAR, REMEMBER WHO INVENTED IT.

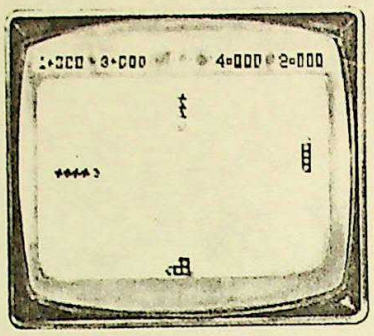


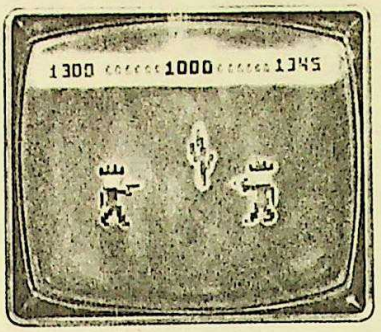
...systems including model HH-1405 offering a BSR record changer for automatic or manual operation and FM stereo/FM/AM receiver with 8-track front-loading cassette mechanism and flywheel tuning and tone control with click stop.

The remainder of the line consists of ... per-channel rms model.

New separates include an integrated amp model 550 with 45-watts-per-channel output and model 850 integrated amplifier with a 65-watt-per-

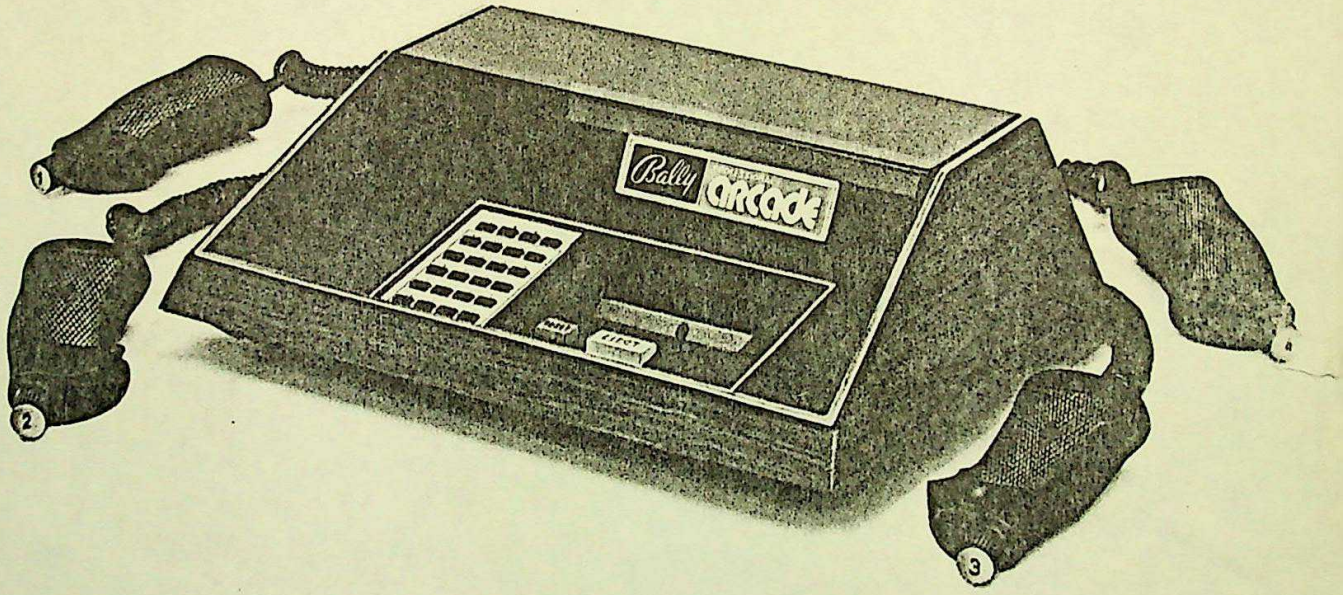
THE MOST POPULAR GAMES...IN THE MOST ADVANCED UNIT.





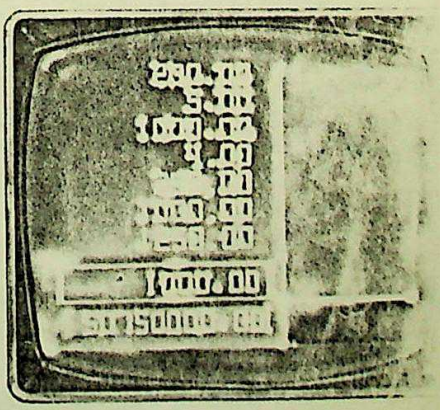
The Bally Professional Arcade ha commercial arcade excitemen and fun, and that all begins with Professional-arcade games. The computer-like console comes with the popular Checkmate, Gunfight games and a sophisticated 4-function 10-memory printing calculator built in.

CONSOLE INCLUDES CHECKMATE & GUNFIGHT



CONSOLE ALSO INCLUDES PRINTING CALCULATOR

The Bally Professional Arcade works for its owner as well as entertains him. It's a sophisticated 4-function, 10-memory printing calculator with scroll button and entry correction, capable of reconciling bank balances, computing taxes and the like.



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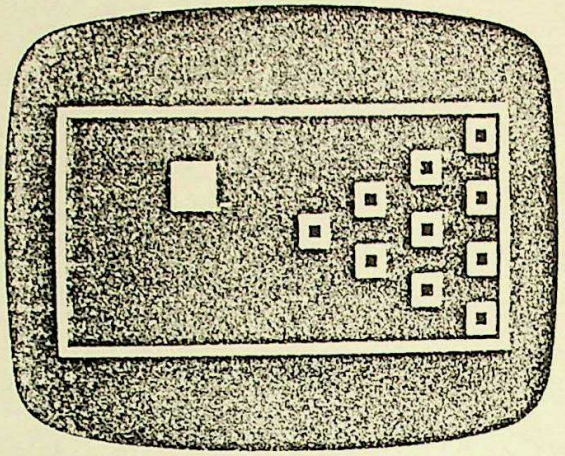
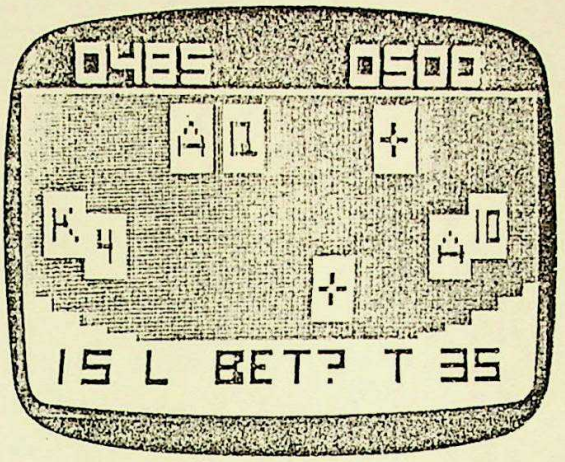
with a 12/24 time display, adjustable clock brightness, adjustable vol-



RCA Studio II, our only black-and-white programmable, had very coarse display. But its bowling game, here, requires skill.



Programmables have more than "action" games. Blackjack, on *Fairchild Channel F*, above, is very close to the real thing.

drawback: Each player has to work three rotating knobs controlling vertical, horizontal, and rebound movement. (On the other games, rebound is determined by the way the paddle hits the ball.) None of CU's staffers have three hands, and all found it difficult to control three knobs at once.

The push-button keyboard controls on the *RCA Studio II* don't lend themselves well to continuous-motion games. When you press a key, the paddle moves a bit. If you want to keep it moving, you have to keep the key depressed. To move it in another direction, you have to press another key. The keyboards are fine for quiz-type games, though.

The *Atari Video Computer System* and the *Fairchild Channel F* have easy-to-manipulate "joystick" controls.

A game's controls should operate smoothly, no matter what type they are. Good controls are neither sticky nor loose. Nor are they supersensitive, causing large movement of a paddle with only slight movement of a control.

Sound effects. All the games have sound effects. Some send the sound out through the console. Others, noted in the Listings, send it out through the TV's speaker. We prefer the latter because it gives you control over volume.

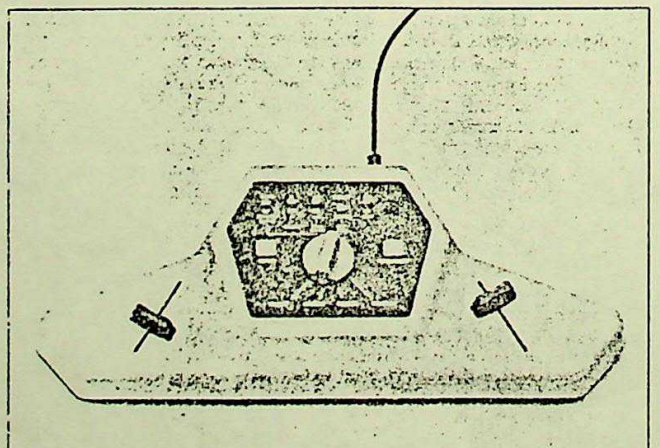
Ball-and-paddle games beep and boop each time a paddle hits a ball or a ball hits a boundary. The *Coleco Arcade's* racing game has motors that varoooom and car-crashes that crunch. Of all the games we looked at, the *Atari Video Computer System's* combat games have the most sophisticated sound effects, including the rat-a-tat-tat of machine guns and the roar of jets.

The Listings note which games come in black and white, which in color. Most of the black-and-white games show white objects against a black or gray screen. That can make it hard to figure out who's who in some games—especially in squash, where the two paddles are on the same side of the screen. The *Lloyd's TV Sports* and the *APF TV Fun* have paddles that are easy to tell apart.

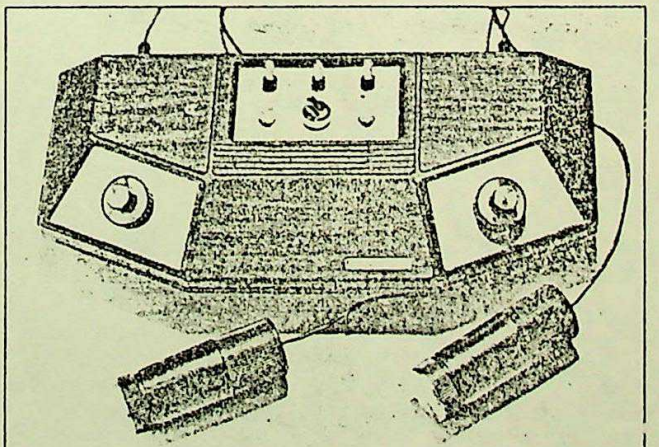
The color games are quite colorful. Most use different-colored backgrounds for different games: blue for hockey, green for tennis, and so on. Each player's paddle and score are a different color, too. If you use a color game on a black-and-white TV, everything is in varying shades of gray.

DO THEY DAMAGE THE TV?

The Federal Trade Commission is currently investigating the likelihood of TV-screen damage resulting from long-



Enterprex, like a number of other games of both types, has its controls attached to console. Players must sit near console.



With *APF TV Fun*, two players use controls on console; two others can use hand-held controls operated by rotating knobs.

273-85G

3-79

Dans ce numéro :

LA NOUVELLE ELECTRONIQUE GRAND PUBLIC

REVUE MENSUELLE
FONDÉE EN 1795
30 F — FRANCE
35 F — ÉTRANGER
MARS 1979

PAT. & TM. OFFICE
JUL 9 1979

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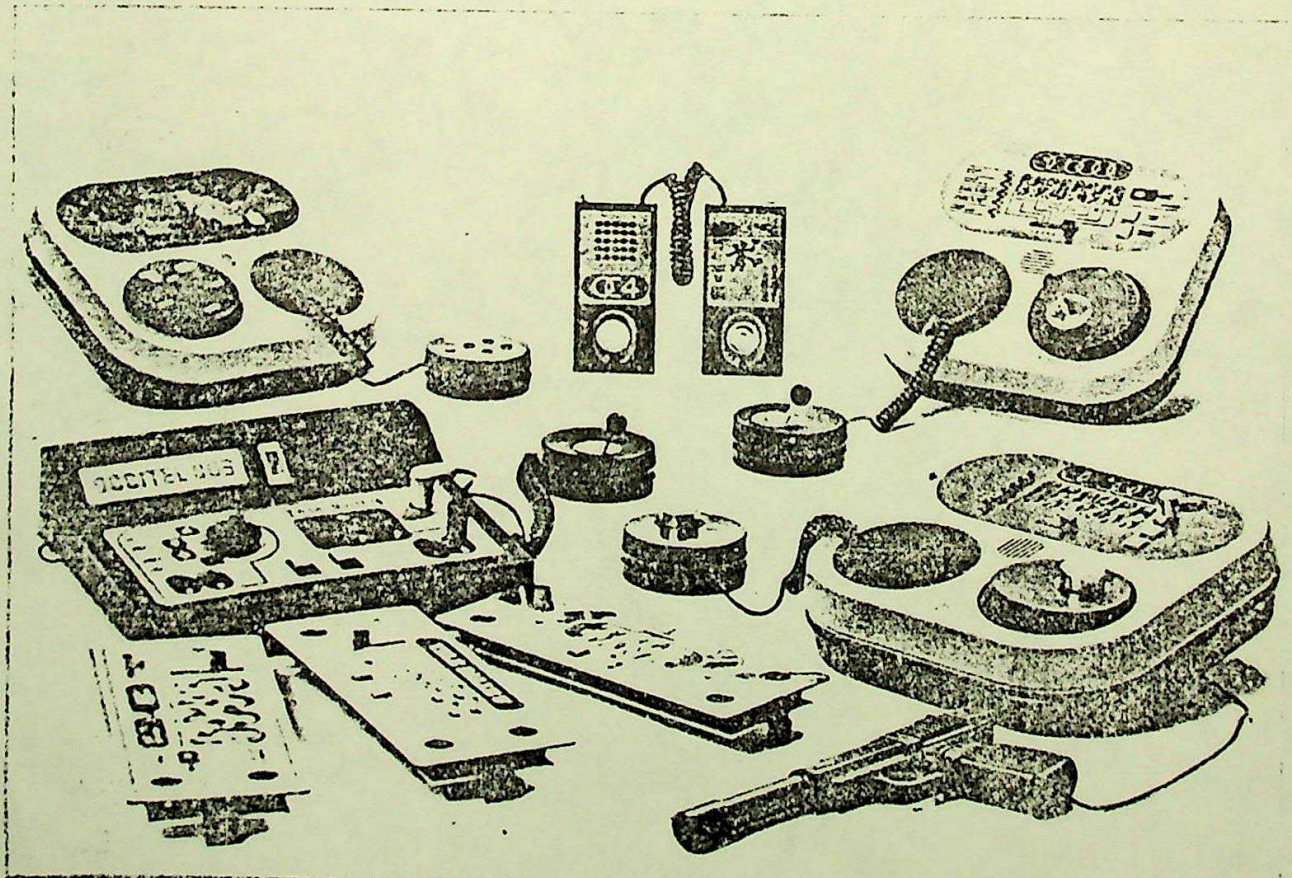
DEVELOPPEMENT ET ENVIRONNEMENT INDUSTRIELS TECHNOLOGIE/ENERGIE/SOUS-SOL



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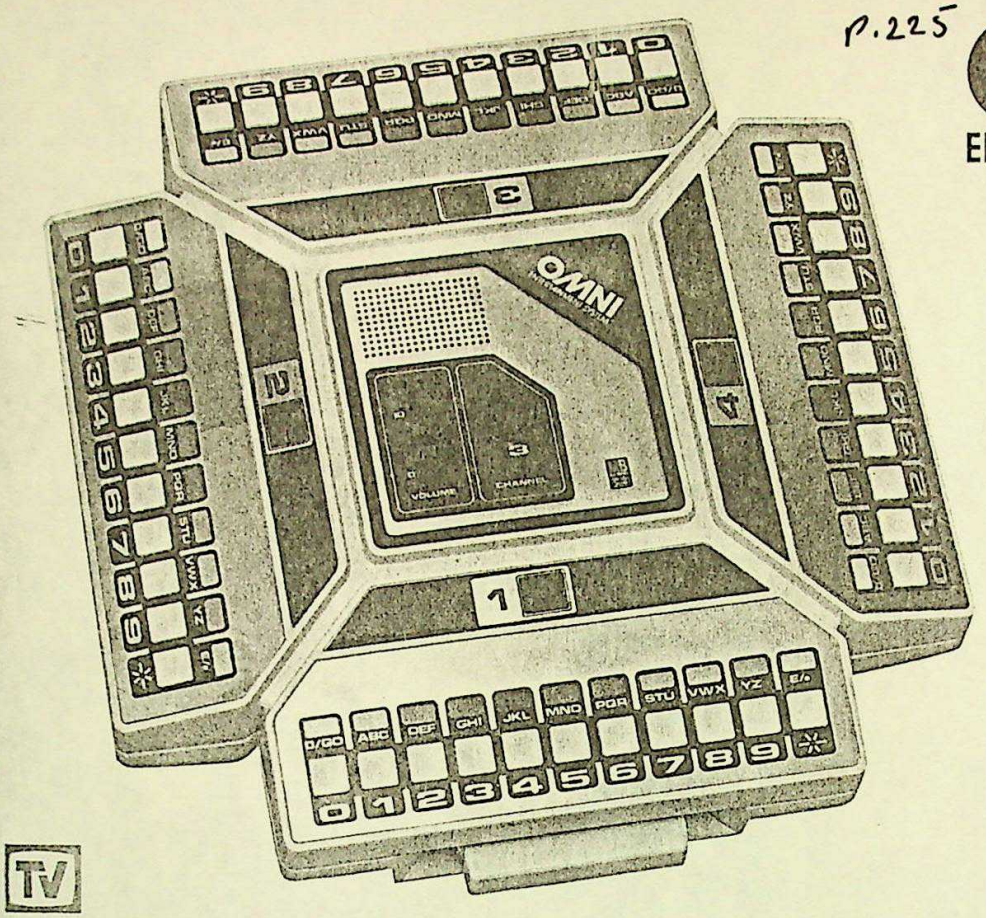
OMNI ENTERTAINMENT SYSTEM

MB ELECTRONICS MILTON BRADLEY®



TV

OMNI™ ENTERTAINMENT SYSTEM

Ages: 8-Adult **1-4 Players**

Put yourself in the contestant's seat as electronic Omni hosts game shows, contests, sports quizzes and party games. Controlled by special tape cartridges, Omni actually asks players to answer trivia questions, name tunes and spell words. Answers are entered on a keyboard, while Omni announces winners and solutions and flashes the score on a digital display panel. Omni comes with a full-length tape cartridge sampling the challenging selection of game and quiz topics available separately. Just pop in a different cartridge for a new game. You can even listen to your regular 8-track tapes on the Omni system. Omni plugs right into any AC electrical outlet, no batteries required.

No. 4067

OMNI™ CARTRIDGES

Enjoy hours and hours of question and answer fun with quiz or game topics of your choice! Each programmed, full-length Omni cartridge pops right into the Omni entertainment console. Omni knows all the answers, do you?

Jeopardy Would you bet on it? **No. 4068**	**Password Plus** Have a clue? **No. 4069**	**Music, Music, Music** Mystery melodies. **No. 4070**	**Words, Words, Words** Spell that, please! **No. 4071**	**Just For the Fun of it!** Party games. **No. 4072**	**Quick Quiz** No brooding here! **No. 4073**
Sesame Street Quiz Fun for little folks **No. 4074**	**TV Trivia** Stay tuned for Vincent Price! **No. 4075**	**Movie Trivia** "Screentest" with Vincent Price. **No. 4076**	**Football Quiz** Score or fumble? **No. 4077**	**Baseball Quiz** How's your batting average? **No. 4078**	**Sports Trivia** Fun with Pat Summerall **No. 4079**

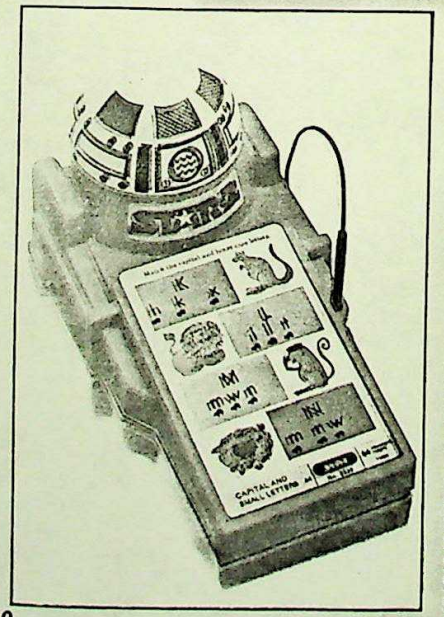
ATARI® VIDEO GAMES NEW

Atari's Video Computer System™ offers the best in programmable TV games! Features bright, crisp color, realistic sound effects, interchangeable controllers, and difficulty option switches. No batteries needed. Comes with controllers, AC adapter, and TV switch box. (Television set and keyboard not included.)
#ATCX2600 (8 lbs) **$159.95.**

Choose from these Game Program Cartridges (1 lb) **$21.95** each:
#ATCX2602 Air-Sea Battle
#ATCX2605 Outlaw
#ATCX2606 Slot Racers
#ATCX2607 Canyon Bomber
#ATCX2612 Street Racer
#ATCX2618 3-D Tic-Tac-Toe
#ATCX2621 Video Olympics
#ATCX2622 Breakout
#ATCX2623 Home Run
#ATCX2624 Basketball
#ATCX2625 Football
#ATCX2626 Miniature Golf
#ATCX2627 Human Cannonball
#ATCX2628 Bowling
#ATCX2629 Sky Diver
#ATCX2630 Circus Atari
#ATCX2633 Night Driver
#ATCX2634 Golf
#ATCX2642 Concentration game
(requires #ATCX50 Keyboard Controller Pair, $19.95, for operation)
#ATCX2643 Codebreaker
(requires #ATCX50 Keyboard Controller Pair, $19.95, for operation)
#ATCX2662 Hangman
#ATCX26 64 Brain Games
(requires #ATCX50 Keyboard Controller Pair, $19.95, for operation)
(1 lb) **$29.95** each:
#ATCX2613 Adventure
#ATCX2631 Superman
#ATCX2632 Space Invaders
#ATCX2652 Casino
(1 lb) **$39.95** each:
#ATCX2611 Indy 500 (2 lbs)
#ATCX2617 Backgammon
#ATCX2620 Basic Programming
(requires #ATCX50 Keyboard Controller Pair, $19.95, for operation)
#ATCX2645 Video Chess
(1 lb) **$11.95** each:
#ATCX2644 Flag Capture
#ATCX2661 Fun with Numbers

New from Atari:
Game Library Storage Unit
Front loading, lever controlled, holds 8 cartridges with separate storage for instruction books.
#ATORG300 (3 lbs) **$9.95**

ACTIVISION Software, compatible with Atari Video Computer System™
(1 lb) **$21.95** each:
#ACRACE Dragster
#ACCHECK Checkers
#ACBOXING Boxing
#ACFISHIN Fishing Derby



STAR 2
The Teaching Robot NEW

Star 2 reinforces every correct answer with flashing lights and space age sounds in self-paced, self-correcting drills. The child places a question card on the grid plate and uses the safety probe to choose an answer. Sequenced tests and reviews take the child through logical development of subject areas. The Starter Program (included) and additional programs (available separately) have been developed by educators to supplement and enhance basic curriculum concepts.
#STAR2 (6 lbs) **$39.95;**
Requires #ER9VOLT Battery (1 lb) $1.75 or #DS6908 9-volt adapter (2 lbs) $6.95.

Star-2 20-card Learning Packets (3 lbs) **$5.95** each:

Pre-Reading Series (Ages 3-6)
ST8310 Learning the Colors
ST8311 Recognizing Basic Shapes
ST8312 How Many?
ST8330 Capital and Small Letters

Beginning Reading Series (Ages 4-8)
ST8313 Following Directions
ST8314 Learning About Animals
ST8331 Alphabet Sequence
ST8332 Number & Color Words
ST8333 The Basic Sight Words
ST8334 Sounds of Letters: Phonics I
ST8335 Sounds of Letters: Phonics II

Everyday Skills (Ages 5-9)
ST8340 Learning About the Calendar
ST8341 Learning to Tell Time
ST8342 Money Recognition
ST8350 Addition and Subtraction: Set I

General Skills (Ages 7-12)
ST8360 Multiplication: Set I
ST8361 Multiplication: Set II
ST8369 Potpourri of General Skills
ST8370 Understanding What You Read
ST8371 Building Vocabulary

273/DIG.28 ATARI

Products

PARKER BROTHERS has announced its newest electronic board game, titled Lost Treasure. Combining electronic technology with classic board play, the product is designed with a map of islands, ports and buried gold and silver treasure locations. The object is to locate, dive for, and recover the booty. Designed for ages eight to adult, the game demands luck and skill for enjoyment by two to four players. A supporting TV ad campaign is planned.

Parker Brothers, 50 Dunham Road, Beverly, MA, 01915

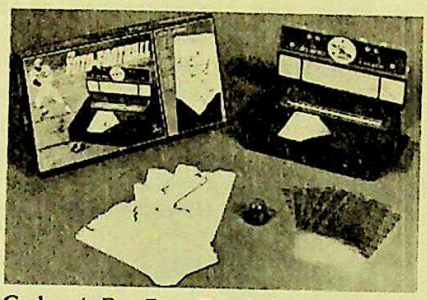
The Atari 5200.

ATARI's newest home video game system is the Atari 5200™ Home Entertainment System. The company claims this introduction has more power and memory potential than its previous systems, giving an audio and video quality comparable to that of arcade games. The system will be available to the public by October, along with an assortment of ten game cartridges.

Atari Inc., 1265 Borregas Ave., P.O. Box 427, Sunnyvale, CA, 94086

INTERNATIONAL PLAYTHINGS, INC. is importing a 2¾-in. doll handmade by Halfpenny Houses of Devon, England, and modeled after the Royal Baby. Lying on a lace-trimmed satin pillow in gold-lined box with a gold cord, the Royal Baby comes dressed in a satin and lace Christening robe. The doll is package sized and inscribed with the notation that it is part of a limited edition to celebrate the royal birth in England.

International Playthings Inc., 151 Forest Street, Montclair, NJ 07042



Cadaco's Pro Foto-Football.

CADACO has introduced a new portable tabletop sports game, Pro Foto-Football, designed for players who understand and enjoy football strategy. The game is said to have a new design for play setups and display that eliminates questions about the outcome of any tackle or pass completion. Included in the game are a stadium play-viewer with gridiron, scoreboard and probability chart, dice shaker and set of action plays, complete for offense and defense.

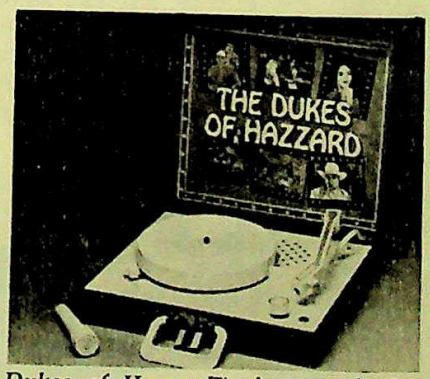
Cadaco, Inc., 310 West Polk Street, Chicago, IL, 60607

AARON SUPPLY, a New England based distributor of stained glass baking crystal forms, announces a new addition to its line which depicts the mythical unicorn. The Unicorn Kit contains instructions with color codes, six packs of baking crystals and one 7½-in. metal frame. The end result is a likeness of the unicorn head in a circular frame.

Aaron Supply Company, 269 Armistice Blvd., Pawtucket, RI, 02860

TSR HOBBIES, INC. is introducing four new mini-games this year: Icebergs™ allows one through six players to guide their ships through treacherous North Sea waters to avoid icebergs and conquer opponents; Remember the Alamo! recreates the famous battle for two players with a map detailing the historical fort and Texan versus Mexican armies; Viking Gods™ is a gathering of Norse gods for an ultimate confrontation and features map, dice, playing counters and rules for two players; Attack Force™ is a game including squadrons of small star-fighters attacking a powerful starship.

TSR Hobbies, Inc., P.O. Box 756, Lake Geneva, WI, 53147



***Dukes of Hazzard*™ phonograph, by Vanity Fair.**

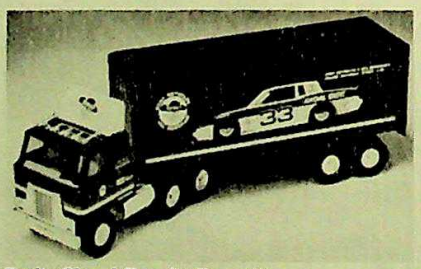
VANITY FAIR offers young viewers a chance to sing along with their favorite stars on their new *Dukes of Hazard*™ Sing-Along phonograph. Equipped with a four-inch speaker and on / off switch with volume control for both the phonograph and microphone, this set with Super-Arm™ needle plays all 45 and 33⅓ RPM records, including those by the characters from the hit TV series.

Vanity Fair Industries, Inc., Hwys 136 and 20, Dyersville, IA, 52040

Tom Thumb typewriter, by Wesco.

WESCO has re-introduced the Tom Thumb name on a new children's typewriter and believes it has strong play value at a reasonable price point. The Tom Thumb typewriter includes deluxe carry case, multi-strike carbon ribbon system, line space saver, backspace key and other features found on more expensive machines.

Wesco International, 2218 Enterprise Ave., Jackson, MI, 49203



Ertl's Skoal Bandit Race Team.

THE ERTL COMPANY presents The Skoal Bandit Race Team, a detailed replica of the truck that carries the racing car introduced recently on the NASCAR circuit by owners Burt Reynolds and Hal Needham. A 1/16th scale IH Transtar cab with air foil pulls the van, which is colorfully decaled with the Skoal Bandit car. Rolled edges, shatterproof plastic windows and quality steel construction are standard.

The Ertl Company, Hwys 136 and 20, Dyersville, IA, 52040

VANITY FAIR is the maker of a new wireless CBS Sports microphone. Designed to give children the feel of portraying actual big-time sports announcers, the toy has a flexible antenna and transmits any voice through any AM radio. The CBS logo, as well as its identification, along with that of the manufacturer, are prominent along the wand of the microphone.

Vanity Fair Industries Inc., Hwys 136 and 20, Dyersville, IA, 52040

SUPERIOR TOY has begun shipments of the new Donkey Kong Penny Bank, which recreates in home version the play action of the popular arcade attraction. A penny is inserted in the top of the bank and tumbles into a hidden slot below, unless intercepted by a jump button. Made of durable plastic, the bank is presented in official Donkey Kong colors.

Superior Toy Co., 3417 North Halsted Street, Chicago, IL, 60657

FISCHER AMERICA has developed a new set of rattling blocks in a variety of molded shapes and colors known as Pearl Blocks. Designed to show children the importance of weight and balance during construction play, these sets are targeted for children age two and up. Available in two sizes, the sets include a wagon with sorting compartments in the larger version.

Fischer America, 14-20 Madison Road, Madison, NJ, 07006

H.E. HARRIS makes available a new 2½ foot display fixture featuring stamps and related accessories from around the world. Containing a total of 29 SKUs to attract beginning and intermediate collectors, the display is completely self-service and requires no stamp knowledge on the part of the retailer. Available free with orders of stocking merchandise, the unit can be used in-line, freestanding, or as an endcap.

H.E. Harris & Co., 645 Summer Street, Boston, MA, 02210

ADVENTURE INTERNATIONAL's new computer video game for the TRS-80 Models I and III is Sea Dragon. Players pilot submarines through mine-infested waters filled with added dangers such as underwater mountains, depth charges from battleships, lasers, enemy attacks and falling stalactites. Options include multiple skill levels, high score save, joystick compatibility and one or two player adaptability.

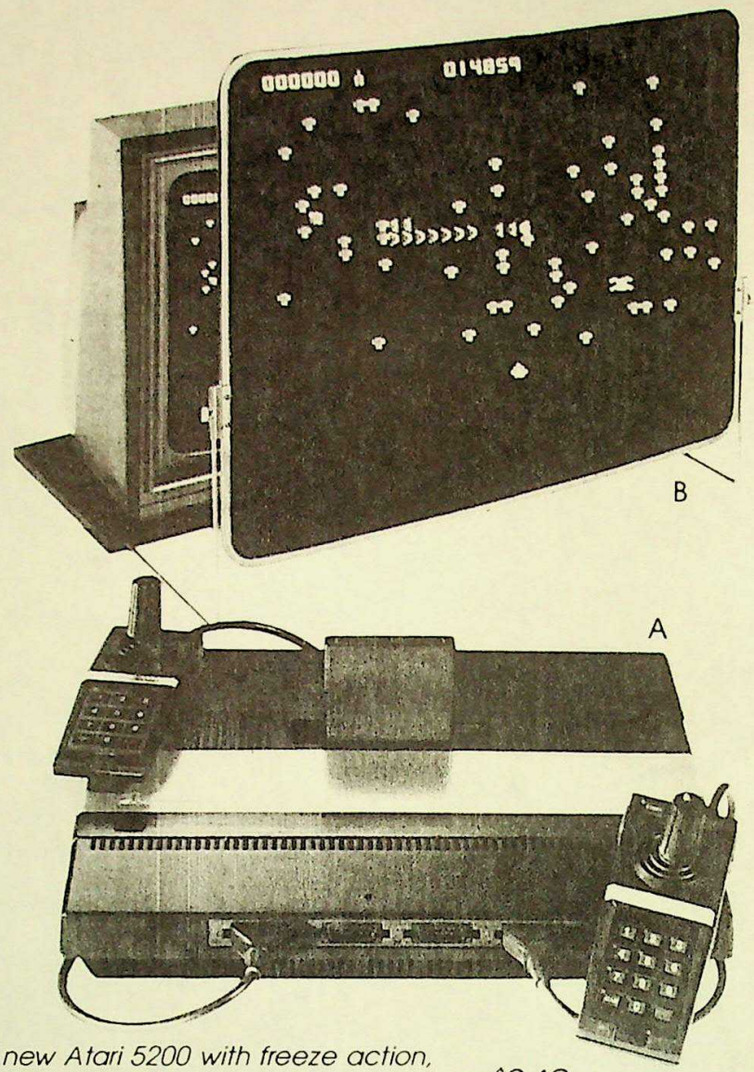
Adventure International, P.O. Box 3435, Longwood, FL, 32750

Arcadia Model 2001, by Emerson.

EMERSON RADIO officially entered the video games market at the June CES show with its introduction of the Arcadia Model 2001 game console. Features include adaptability to use in vehicles such as cars and boats, cable-ready design eliminating the need for cable adaptor, removable joystick and a trim design to eliminate storage bulk. Twenty game cartridges are currently available for the system.

Emerson Radio Corp., One Emerson Lane, Secaucus, NJ, 07094

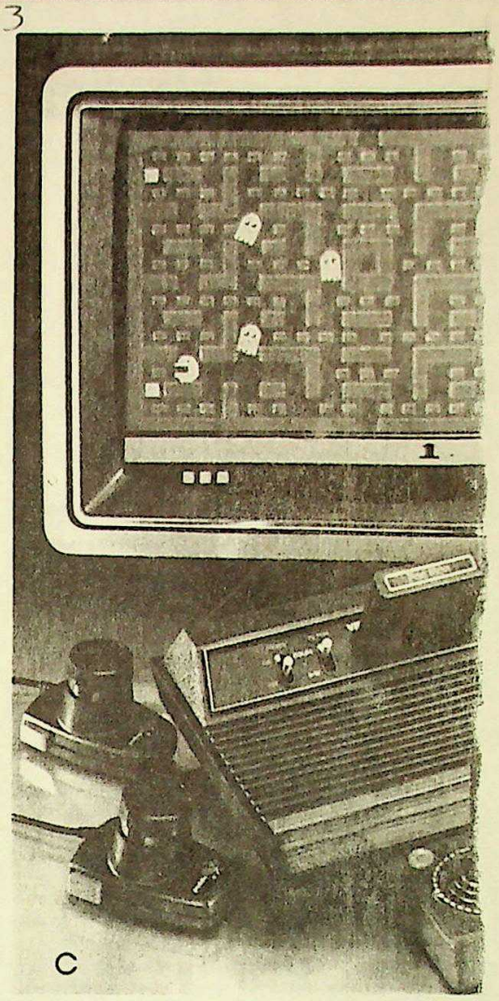
SPIEGEL, HOME World, Spring, 1983



new Atari 5200 with freeze action, more true-to-life sounds and colors . . . $249

A You're snug at home with Atari 5200™ Video Game system defending Mother Earth against evil aliens . . . suddenly the phone rings! No problem. The pause button freezes action, then lets you resume where you left off. Entire family will be drawn in by vivid 16-color images and all the true-to-life sounds. New worlds of sophisticated game play open up right on your own TV set. Includes Super Breakout game; other cartridges sold below. Controllers, cord tuck away. Console: 25"Wx14"Lx5"H.
N59 B 2750T–Warranted.• Delivered separately. (15 lbs.) 249.00

B Beamscope* Lens magnifies video images and the fun of video games, watching TV. Fresnel lens produces no distortion or clarity loss. Use with swivel base (sold below) for best angle on portable TV's. Needs no power source. Warranted.•
N76 B 0553T–Beamscope enlarges 10"-15" TV screen to 25". Del. sep. (5 lbs.) ... 57.95
N76 B 0554T–Swivel base for above lens fits under TV. Del. sep. (4 lb. 8 oz.) ... 19.95
N76 B 0555T–Beamscope enlarges 17"-23" TV screen to 30". Del. sep. (7 lbs.) ... 67.95
N76 B 0556T–Swivel base for above lens fits under TV. Deliv. sep. (7 lbs.) ... 21.95



new Atari 2600AR game syst

C An updated version of the original Atari Video Comput[er] 2600AR delivers even more excitement ... features [a] cartridges. With the 2600AR you're a spacefighter, pro[ject] the comfort of your home. The fun never ends: there's [more] below. Just hook up to your TV and start playing. Slim [style] (23"Wx13"Dx4"H), 2 joystick and 2 paddle controllers.
N59 B 2799T–Warranted.• Delivered sep. (12 lbs.)

ATARI 400™ BASIC COMPUTER (not shown) turns your TV [into] entertainer/educater at $170 off. Along with the great [games] you play, it's also programmable to handle business and [home] 510). Design/enter programs with the alpha-numeric [keyboard], sound synthesizers. Memory: 16K bytes of RAM, 13"L, W×[D]
N59 B 2570T–Warranted.• Delivered sep. (12 lbs.)

ATARI 400 ENTERTAINMENT KIT: Star Raiders™, Missile [Command], joystick controllers. Space-age action for the whole family.
N59 B 2551T–Delivered separately. (8 lbs.)

N59 B 2557T–Pair of Paddle Controllers. (3 lbs.)
N59 B 2558–Pair of Joystick Controllers. (3 lbs.)

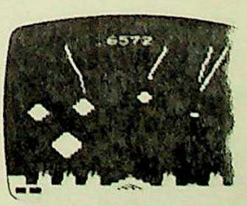
Atari game cartridges and cassettes

ATARI 5200 CARTRIDGES (8 oz.)
N59 B 2757–Centipede™ 37.95
N59 B 2751–Pac Man•• 37.95
N59 B 2752–Missile Command™ 31.95
N59 B 2754–Space Invaders † 31.95
N59 B 2755–Galaxian•• 37.95
N59 B 2756–Star Raiders™ 37.95
N59 B 2758–Defender††† 37.95
N59 B 2760–Football 34.95
N59 B 2761–Soccer 34.95

†Trademark of Taito America Corp.
••Trademark of Bally Midway Co. licensed by Namco America Inc.
†††Trademark, Williams Electronics Inc.
••••Lucasfilm Ltd. 1982 (LFL)
†††©Universal City Studios, 1982

CARTRIDGES FOR ATARI 2600AR and Video Computer System (8 oz.)
N59 B 2710–Pac Man•• 34.95
N59 B 2701–Asteroids™ 34.95
N59 B 2702–Space Invaders † 29.95
N59 B 2704–Missile Command™ 29.95
N59 B 2721–Football 24.95
N59 B 2709–Defender††† 34.95
N59 B 2717–Super Breakout• 29.95
N59 B 2718–Star Raiders™ 39.95
N59 B 2719–Baseball 24.95
N59 B 2720–Pele Soccer™ 12.95
N59 B 2722–E.T.†† 39.95
N59 B 2705–Berzerk• 29.95
N59 B 2512–Donkey Kong™ 34.95
N59 B 2692–Frogger™ 31.95
Raiders of the Lost Ark •••
N59 B 2723 ..... 34.95

ATARI 400 CARTRIDGES require joystick controllers (Super Breakout needs paddle controllers). (1 lb.)
N59 B 2554–Space Invaders † 39.95
N59 B 2555–Super Breakout• 39.95
N59 B 2556–Pac Man•• 39.95
N59 B 2560–Missile Command™ 34.95
N59 B 2568–Centipede™ 39.95
N59 B 2561–Star Raiders™ 34.95
N59 B 2553–Asteroids™ 39.95
N59 B 2573–E.T.••• 39.95

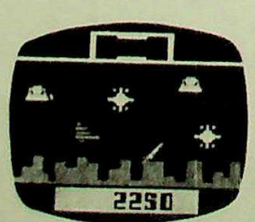


Missile Command

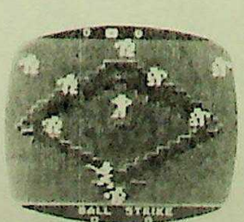
ATARI 400 CASSETTES. Need BASIC cartridge (included in Programmer Kit) and recorder (pg. 510). (8 oz.)
N59 B 2562–Energy Czar™ 14.95
N59 B 2563–Hangman 14.95
N59 B 2564–Kingdom 14.95

States and Capitals quiz games
N59 B 2565–U.S.A. 12.95
N59 B 2566–European 14.95

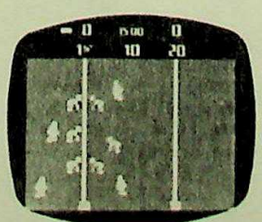
Asteroids

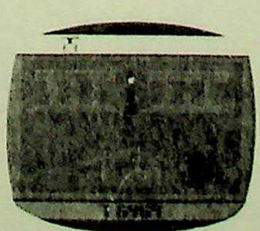


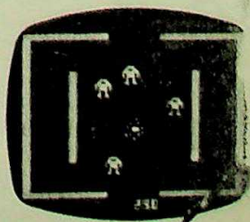
Defender

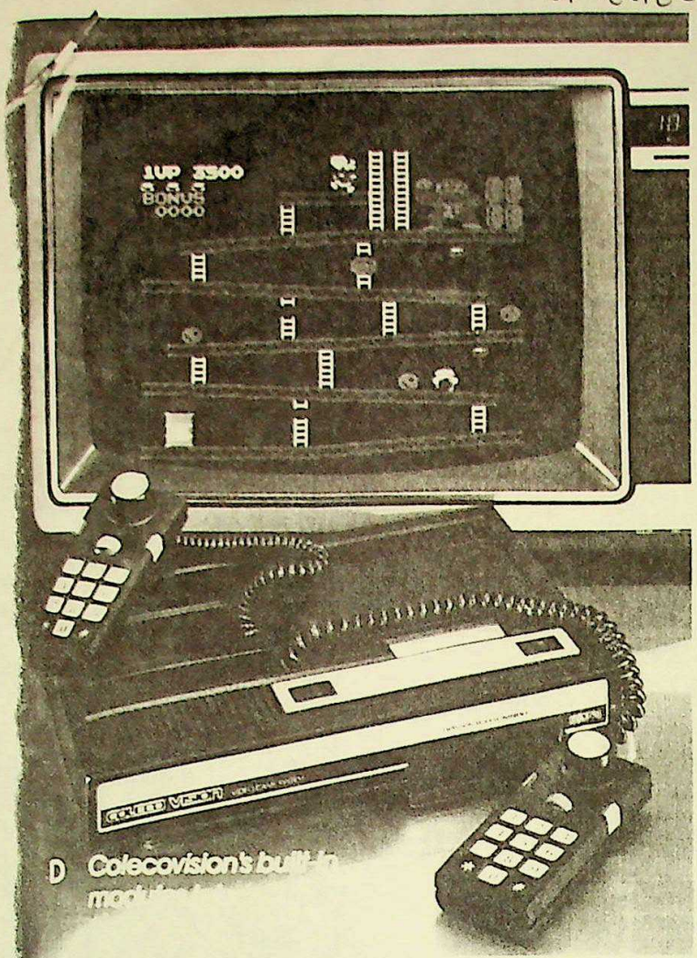


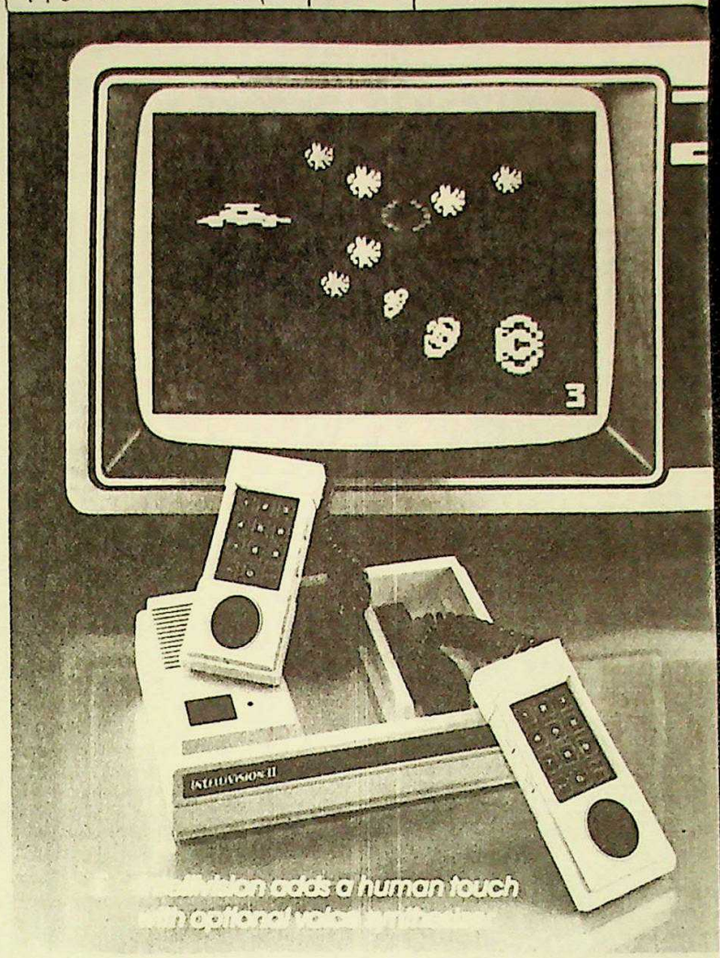
Baseball


Football


E.T.


Berzerk





D Colecovision's built-in

...tellivision adds a human touch

D Colecovision Video Computer System with game speed controls is perfect for players of all ages and skill levels. Expand family play time by turning your TV into an exciting entertainment center. And you can even expand the computer's capabilities - the modules to do so are already built in. You'll love it so much you'll never want to stop playing, but if you have to, the stop button freezes play briefly and then picks up right where it left off. Game play has arcade "feel" - intriguing sound effects, sharp images in vibrant colors. Comes complete with Donkey Kong™ game cartridge (more games sold below). 10"Wx15"Lx3½"H. Warranted •

N59 B 2406T Delivered separately (11 lbs.) **199.95**

COLECOVISION GAME CARTRIDGES (8 oz. each)

N59 B 2408 Venture ™	34.95
N59 B 2409 Mouse Trap ™	34.95
N59 B 2410 Lady Bug ™	34.95
N59 B 2411 Cosmic Avenger ™	34.95
N59 B 2412 Las Vegas ™	34.95
N59 B 2414 Smurf Action ™	34.95
N59 B 2415 Carnival ™	34.95

E Your living room takes on new meaning equipped with Intellivision by Mattel. The whole family drives a high speed car or goes 10 rounds with the champ - without cruising or bruising! State of the art graphics and precise 16-direction controls provide amazing game play. Controller overlay puts instructions at your fingertips. Voice synthesizer (sold below) adds a human voice. Console (7⅝"Wx8⅛"Lx2"H) conceals controllers when not in use. Hooks up easily to your TV. Uses cartridges sold below.

N59 B 2498T Warranted • Deliv. sep. (7 lbs. 8 oz.) **179.95**

MATTEL INTELLIVOICE SYNTHESIZER. Easy hook up brings human-sounding voice to your Intellivision. Strategy tips, battle-warnings. 4"Wx6"Lx2"H.

N59 B 2494T Warranted • Delivered separately. (1 lb.) **79.95**

INTELLIVISION VOICE CARTRIDGES

N59 B 2495 Space Spartans ™ N59 B 2496 B-17 Bomber.™

N59 B 2497 Bomb Squad ™ (8 oz. each) ..... Each **44.95**

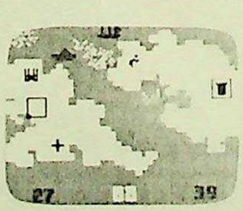
INTELLIVISION GAME CARTRIDGES (12 oz. ea.)

N59 B 2490 Frog Bog ™ **24.95**

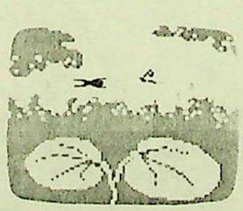
N59 B 2478 Astro Smash ™	N59 B 2486 Space Battle.™
N59 B 2488 Baseball	N59 B 2492 Boxing
N59 B 2493 Bowling	N59 B 2479 Nightstalker.™
N59 B 2485 Space Armada ™	N59 B 2487 Football
N59 B 2491 Auto Racing	..... Each **34.95**
N59 B 2480 Lock N Chase.™	N59 B 2482 Space Hawk.™
N59 B 2481 Star Strike.™	N59 B 2484 Tron Deadly Disc.*
	N59 B 2483 Dungeons & Dragons.*
	N59 B 2489 Utopia.™ ....Ea. **39.95**

Colecovision *Mattel Intellivision*

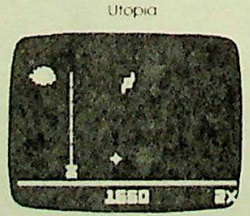
Mouse Trap



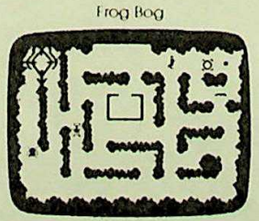
Utopia

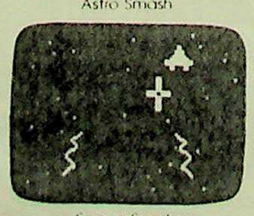

Frog Bog

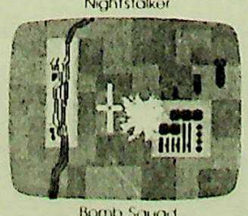
Venture



Astro Smash


Nightstalker


Space Spartan


Bomb Squad

F-H Bring home the fun of famous arcade games. Tabletop versions look and play like the ones at the arcade. Each uses 4 "C" batteries (not incl.). 6½"Wx8"Lx8¼"H. Warranted •

(F) Save $10 on PAC MAN.™ The whole family is home with Pac Man fever! Has 2 skill levels for 1 or 2 players. Includes Pac Man™, Head to Head Pac Man™, and Eat and Run.™ Reg. $69.95.

N59 B 2401 (1 lb. 6 oz.) **59.95**

*Midway/Bally Mfr. Co.

(G) DONKEY KONG.™ Save the damsel in distress from the giant ape. Joystick and jump button. 1 or 2 players.

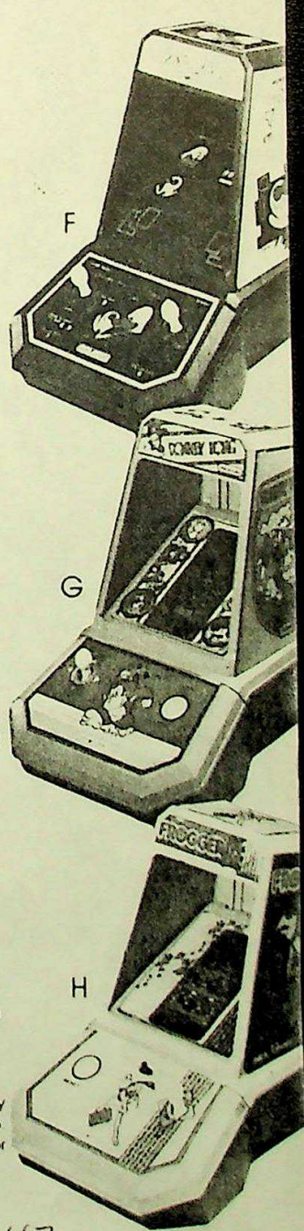
N59 B 2403 (1 lb. 8 oz.) **59.95**

*Nitendo of America Inc.

(H) FROGGER.™ It's a real challenge to make your frog cross the road, hop on a log and cross the bog! *Sega/Gremlin

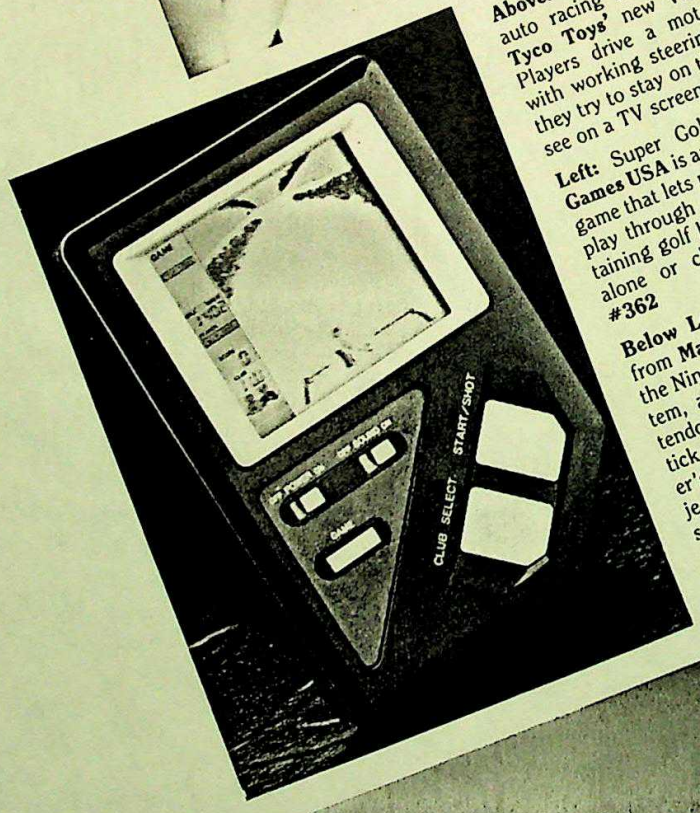
N59 B 2402 (1 lb. 8 oz.) **59.95**

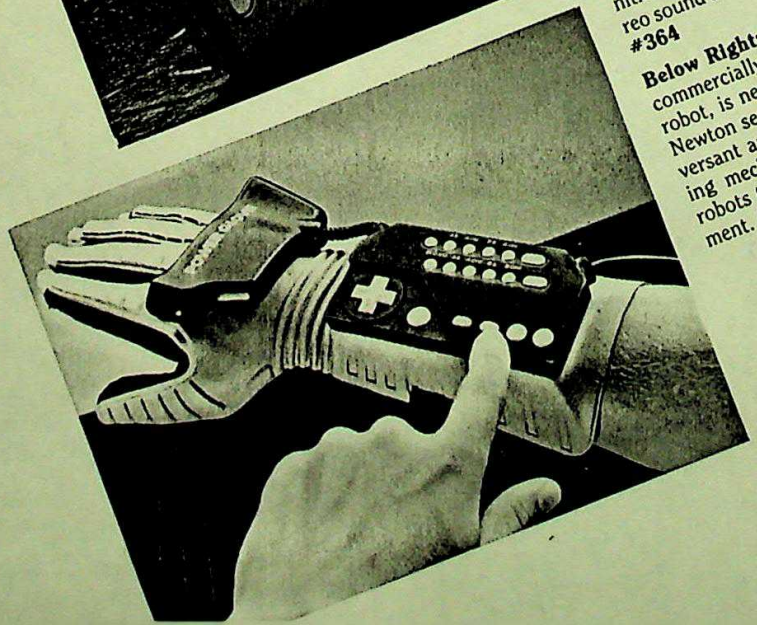
please note... •For copy of warranty see pg. 516. Credit terms on pg. 246. Game consoles use 110-120V, AC. Color graphics on color TV sets only. Dungeons & Dragons, *TSR Hobbies. Tron Deadly Disc, *Disney Prod.



F
G
H

Hongkong T.
84
page 179





Above: The excitement of real auto racing comes home with **Tyco Toys'** new Video Driver. Players drive a motorized car with working steering wheel as they try to stay on the road they see on a TV screen. **#361**

Left: Super Golf from **Micro Games USA** is an LCD electronic game that lets players tee up and play through a variety of entertaining golf holes. You can play alone or challenge a partner. **#362**

Below Left: The Power Glove from **Mattel Toys**, designed for the Nintendo Entertainment System, allows control of all Nintendo games without the joystick. The movements of the player's hand dictate the action of objects and characters on the screen. **#363**

Upper Right: Sega's Genesis System brings arcade-quality video gameplay into the home. The 16-bit system provides high-definition graphics, high-fidelity stereo sound and lifelike characters. **#364**

Below Right: Newton, the first commercially available personal robot, is new from **SynPet**. The Newton series is intelligent, conversant and equipped with sensing mechanisms that allow the robots to navigate their environment. **#365**

Playthings
Aug., 1989

⑲日本国特許庁(JP)　⑪特許出願公開

⑫公開特許公報(A)　平4−174694

⑤1Int.Cl.⁵	識別記号	庁内整理番号
A 63 F 9/22	F	8102−2C
G 06 K 11/06		7131−5L

⑬公開　平成4年(1992)6月22日

審査請求　未請求　請求項の数 1　(全3頁)

⑤4発明の名称　画像表示付きジョイステイツク装置

⑳特　願　平2−302064
㉒出　願　平2(1990)11月7日

⑦2発明者　梶　敏之　東京都大田区羽田1丁目2番12号　株式会社セガ・エンタープライゼス内

⑦1出願人　株式会社セガ・エンタープライゼス　東京都大田区羽田1丁目2番12号

明　細　書

1　発明の名称

画像表示付きジョイスティック装置

2　特許請求の範囲

テレビゲーム機本体にゲームプログラムが入っているゲームカートリッジをセットして、家庭用のテレビに映像を映し出して、テレビゲーム機に操作用のジョイスティックを接続してゲームを楽しむ形式の家庭用テレビゲーム機に用いるジョイスティックにおいて、

ジョイスティック側の表面に方向操作スイッチと押しボタンスイッチとを配置する共に液晶表示素子を設け、該ジョイスティック側内部には少なくとも前記方向操作スイッチと押しボタンスイッチからの信号を該家庭用テレビゲーム機のジョイスティック端子に送る信号線を備えると共に該家庭用テレビゲーム機からのテレビ信号を変換するコンバーター回路と該コンバーター回路からの変換信号をドライバー回路に送り、該ドライバー回路にて該液晶表示素子に映像を映し出す信号にして該液晶表示素子に映像信号を送り、さらにテレビ信号からのサウンド信号を増幅するサウンド増幅回路を備え、該サウンド増幅回路からの音声増幅信号を発音手段に送ることを特徴とする画像表示付きジョイスティック装置。

3　発明の詳細な説明

(産業上の利用分野)

本発明は、家庭用テレビゲーム機用のジョイスティック装置に関する。

(従来技術)

従来の家庭用テレビゲーム機は、テレビゲーム機本体にゲームプログラムが入っているゲームカートリッジをセットして、家庭用のテレビに映像を映し出して、テレビゲーム機に操作用のジョイスティックを接続してゲーム画面中の登場キャラクタを操作して楽しむものである。

(解決しようとする課題)

これらの家庭用テレビゲーム機では、映像を映し出すために家庭にあるテレビセットを用いるためにテレビがないところでは使用できず、戸外で

るアプリケーションソフトならば利用できるのは勿論である。

（作用及び効果）

上述した本発明に基づき作用および効果について説明すれば、ジョイスティック内に液晶表示器を入れることで、家庭用テレビゲーム機を家庭のテレビから切り離すことができ、またテレビゲーム機本体と別にできるので重量が軽くすることができ、長時間の遊戯に対しても手が疲れず、液晶を見易い状態で操作することができ、自動車の中などテレビのない所で遊ぶことができ、さらにテレビゲーム機本体と分離することで、非常に軽くでき家庭用テレビゲーム機の性能をそのまま利用でき、豊富な種類のゲームカートリッジから自由に遊ぶことが可能である。

4．図面の簡単な説明

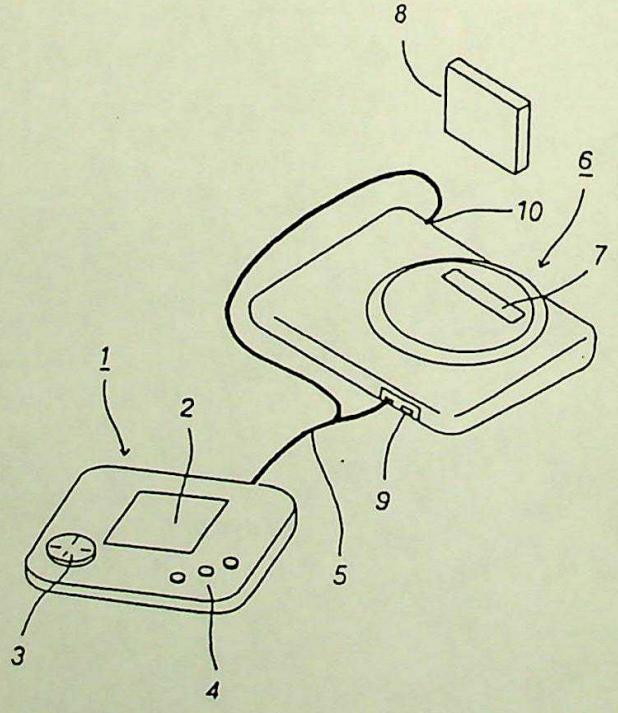
第1図には液晶表示付きジョイスティックを家庭用テレビゲーム機に接続した図を示し、第2図に液晶付きジョイスティックの内部回路のブロック図を示す。

1……液晶表示付きジョイスティック、
2……液晶画面、3……十字方向操作スイッチ、
4……押しボタン、5……接続コード、
6……家庭用テレビゲーム機、
20……制御回路、21……コンバーター変換回路、
22……ドライバー回路、23……サウンド増幅回路、
24……スピーカ、25……イヤフォンジャック、26……ボリューム、27……インバーター回路、
28……蛍光式バックライト、Vcc……電源ライン

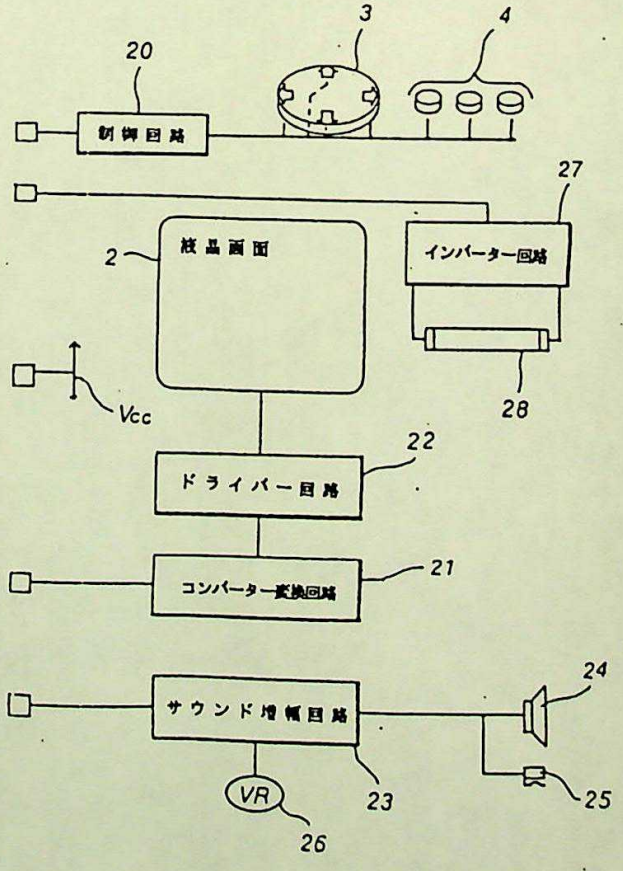
特許出願人

株式会社セガ・エンタープライゼス

第1図



第2図



TV GAMES FROM THE LEADING MANUFACTURER.

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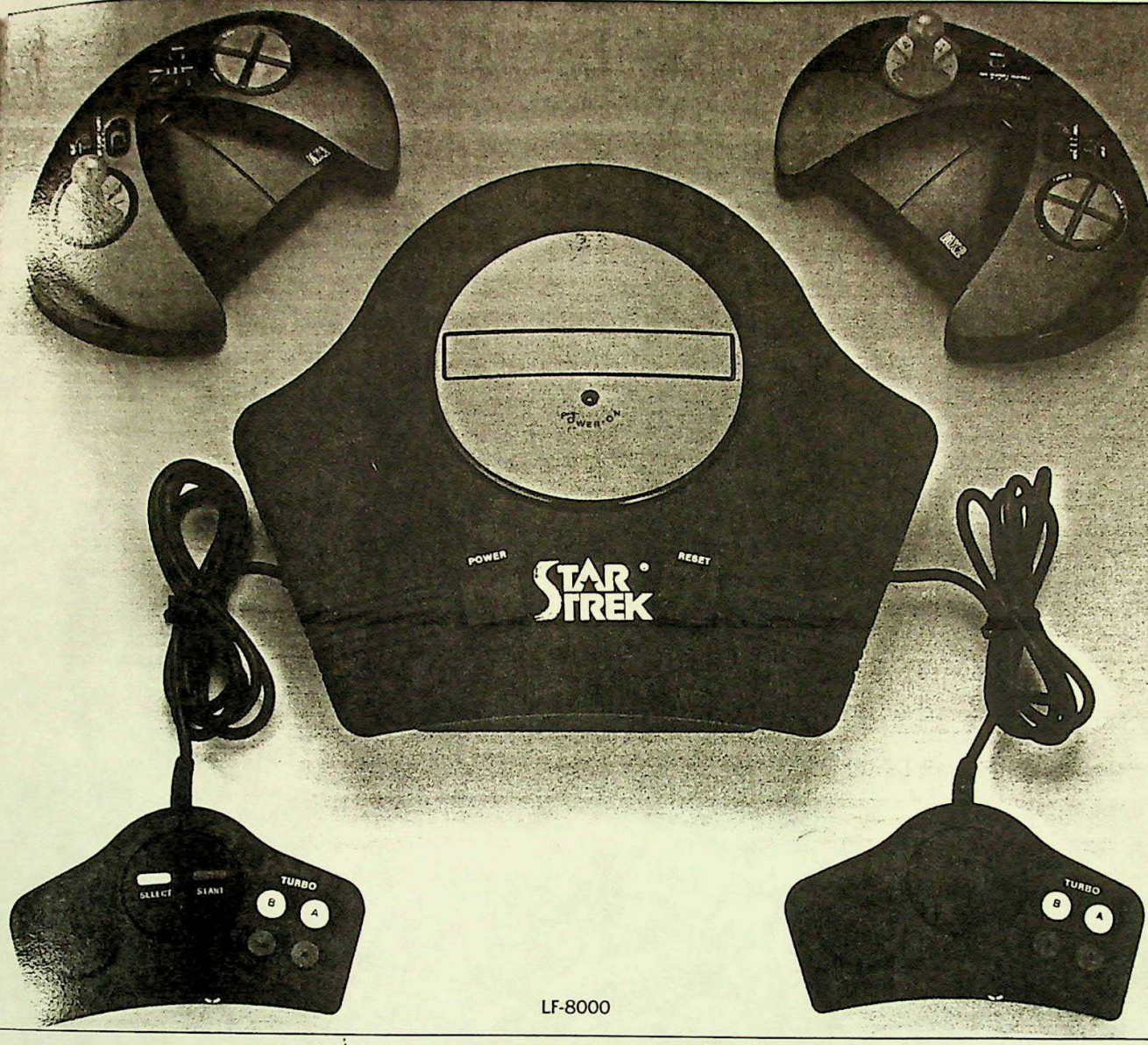
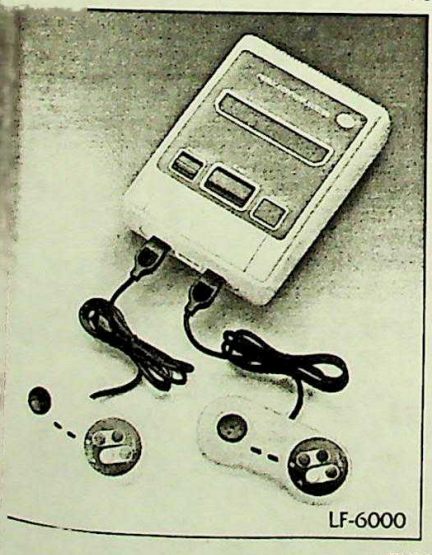


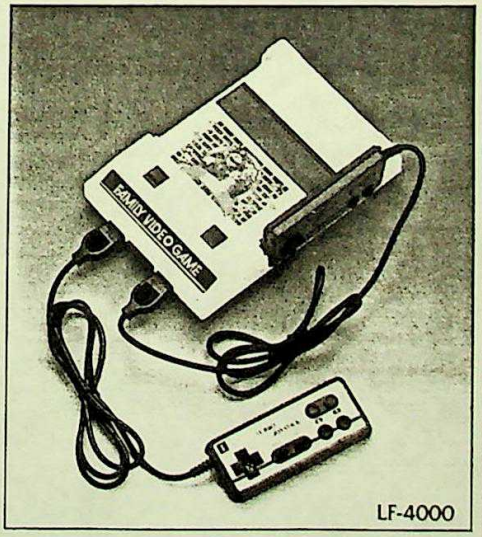
LF-8000

- SECAM, PAL & NTSC SYSTEMS AVAILABLE FOR ALL GAMES.
- FULL RANGE OF ACCESSORIES.



LF-6000

LF-7000
72PIN



LF-4000

- FULL CATALOGUE & QUOTATION AVAILABLE UPON REQUEST.

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(AS)

PC Engine

The most widely distributed CD-ROM game machine in the world with the most extensive variety of software, the PC Engine continues to evolve.

Of the various CD-ROM machines available in the market, the one that deserves attention is the PC Engine, the first CD-ROM game machine, making its debut in 1988. Boasting 580 software titles that can be run on it and the widest distribution in the world, the PC Engine is No.1. The DUO-RX, the latest hardware, and the high-quality software lineup from NEC will make the CD-ROM world continue to evolve. If you choose a CD-ROM game machine, choose the best now.

1988 PC Engine CD-ROM^2 system (introduced in December 1988)

The PC Engine CD-ROM^2 system made an impressive debut as the first home CD-ROM game machine produced in the game industry. The software contained in the large 540-MB medium created a sensation. This was the first step that led to what is now the PC Engine's CD-ROM world.

1991 PC Engine DUO (introduced in September 1991)

The first machine in the game industry ever to have a built-in CD-ROM drive. The sleek design featuring the thin, black body attracted much attention and stirred the news. The 2 M buffer RAM introduced for the first time in the DUO allows you to play CD-ROM games with a higher level of sophistication.

Tokyo Toy Show 6-1994

From 29/025685

1993 PC Engine DUO-R (introduced in March 1993)

This game machine is the result of a successful effort to reduce the costs by slightly modifying the specification of the DUO. With the DUO-R, a game machine with a built-in CD-ROM drive was made accessible to more people. At this time, the number of software titles had reached as many as 200, and the PC Engine's CD-ROM world continued to expand.

1994 PC Engine DUO-RX (introduced in 1994)

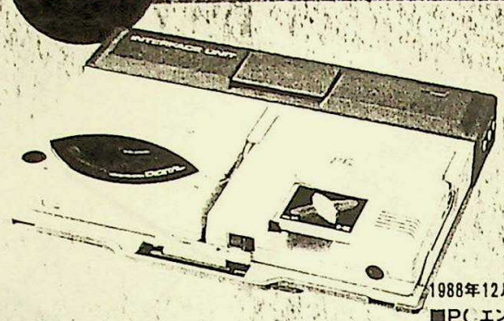
And now the debut of the latest CD-ROM game machine! It is with pride that the DUO-RX has been released. It is compatible not only with the valuable software resources of the past but with new powerful software titles like "3 X 3 Eyes", "Blandish" and "Dragon Ball Z".

Most delightful of all is the price and the 6-button pad that comes with the stock DUO-RX. The price is so low now that you may certainly wish to buy an arcade card together with the machine.

世界No.1のソフトタイトル数、CD-ROMマシンの頂点、P

様々なCD-ROMマシンが登場している今、注目したいのは、1988年、初めてのCD-ROMゲーム加えて最新ハード「DUO-RX」と、NECのハイクオリティなソフトラインアップが、最強のCD-

1988 PC Engine CD-ROM² System PCエンジン CDロムロムシステム



業界初の家庭用CD-ROMゲームマシンとして堂々デビュー！大容量540メガバイトのソフトの世界が、一大センセーションを巻き起こした。これが、現在のPCエンジンのCD-ROM王国を築いた記念すべき第一歩だったのだ！

1988年12月発売
■PCエンジン本体 標準価格 24,800円（税別）
■CD-ROM² 標準価格 57,300円（税別）
（CDR-30+IFU-30）

代表ソフト

天外魔境ZIRIA

■1989年6月発売 希望小売価格7,200円（税別）ハドソン

CD-ROM²初のRPG。坂本龍一さんが音楽を担当したということもあり、たいへんな話題を呼んだ。ジパングを舞台としたその奇想天外なストーリーは圧巻で、今プレイしても十分楽しめる。

イースI・II

■1989年12月発売 希望小売価格7,800円（税別）ハドソン

パソコン版で大人気のA・RPG「イースI」「イースII」を1枚のCD-ROMに収めたCD-ROM²初期の名作。シリーズ最新作「イースIV」も昨年発売され、大きな話題を呼んだ。

©1989 HUDSON SOFT ©1987, 1988 FALCOM
©1989 HUDSON SOFT ©1989, RED

1991 PC Engine DUO PCエンジン デュオ

業界初のCD-ROMドライブ一体型ゲームマシン。ブラックでまとめられた薄型のカッコいいデザインも注目され、大きな話題を呼んだ。そして、このDUOからバッファRAMが2Mに増強され、よりハイレベルなCD-ROMゲームが遊べるようになったのだ。

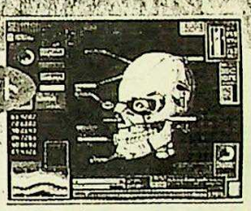
1991年9月発売
■標準価格 59,800円（税別）

代表ソフト

天外魔境II 卍MARU

■1992年3月発売 希望小売価格7,800円（税別）ハドソン

「天外魔境」シリーズの第2作。平均プレイ時間がなんと80時間を越えるという超大作RPG。シナリオ、ビジュアル、サウンド等すべてが高い評価を受けた、ゲーム界の歴史に残る大作だ。



スナッチャー

■1992年10月発売 希望小売価格7,800円（税別）コナミ

映画「ブレードランナー」の世界にも引けをとらない、完成度の高いサイバーパンクアドベンチャー。そのしっかりとした世界観、緊張感、グラフィックなどすべてが絶賛され、多くのファンを獲得した。

©1992 HUDSON SOFT ©1992 RED
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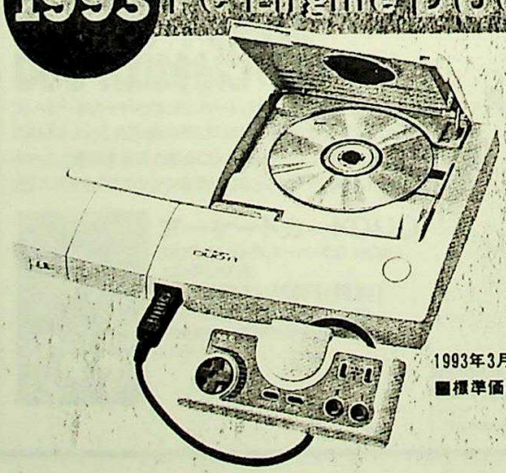
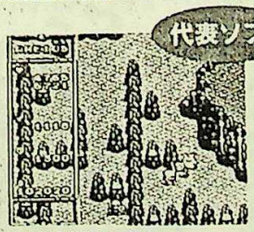
1993 PC Engine DUO-R PCエンジン デュオアール



デュオの仕様を若干変更してコストダウンを実現し、より身近になったCD-ROMドライブ一体型ゲームマシン。この時期にはソフトタイトル数も200本近くになり、PCエンジンのCD-ROM王国はさらに広がっていく。

1993年3月発売
■標準価格39,800円（税別）

代表ソフト



風の伝説ザナドゥ

■1994年2月発売 希望小売価格7,800円（税別）

ゲームソフトの"名門"日本ファルコムがおくる、初のPCエンジンオリジナルA・RPG。練り込まれた数々のシステムが大きな話題を呼んだ。まさに"プレイすることが気持ちいい"傑作。

エメラルドドラゴン

■1994年1月発売 希望小売価格7,800円（税別）

大ヒットしたパソコン版をさらにグレードアップした大作RPG。ふんだんに盛り込まれた美しいアニメーションと、ドラマチックなシナリオが、多くのユーザーを魅了した。

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普及台数!
Cエンジンはさらに進化する!

マシンを誕生させたPCエンジンだ。580本ものソフトタイトル数と全世界での普及台数はまさにNo.1。
ROMワールドをさらに進化させていく。CD-ROMゲームマシンを選ぶキミ、今こそ、頂点をチョイスしよう。

1994 遂にリリース!!!

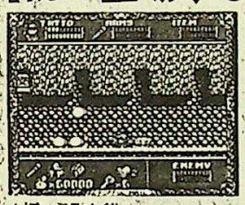
PC Engine DUO-RX
PCエンジン デュオアールエックス

標準価格29,800円(税別)

そして今、最新CD-ROMゲームマシン「DUO-RX」が登場!
今までの豊富なソフト資産はもちろん「3×3EYES」「ブランディッシュ」「ドラゴンボールZ」などの強力ソフトタイトルをひっさげて、堂々のリリースだ!!
何よりもうれしいのは、この価格と、標準装備される6ボタンパッド。これなら、アーケードカードと一緒に買ってもナットクの値段なのだ!!

【続々登場する強力ソフト】

★3×3EYES ～三只眼變成～
(NECホームエレクトロニクス)

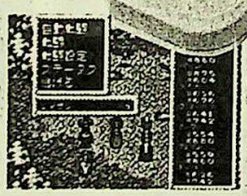


★ぽっぷるメイル
(NECホームエレクトロニクス)

★ドラゴンボールZ
(バンダイ)

★GS美神
(バンプレスト)

★美少女戦士セーラームーン
(バンプレスト)



★ロードス島戦記Ⅱ
(ハドソン)

★栄冠は君に
(アートディンク)

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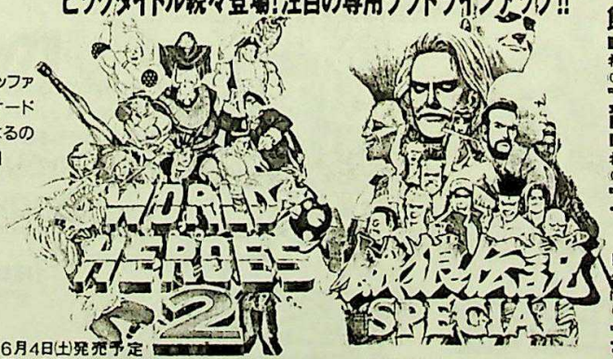
アーケードカードを使えば、DUO-RXはさらにパワーアップ!!

アーケードカードとは、Huカードスロットに差し込むだけで、バッファRAMをなんと合計18メガに拡張する驚異のオプション。アーケードゲームに匹敵する迫力あるCD-ROMゲームが楽しめるようになるのだ。これからPCエンジンを楽しむなら、ぜひ1枚欲しいアイテムだ!

アーケードカードDUO
(DUO、DUO-R、スーパーCD-ROM、LD-ROM用)
標準価格12,800円(税別)
※CD-ROM²にはアーケードカードPRO(標準価格17,800円(税別))をご使用ください。

ビッグタイトル続々登場!注目の専用ソフトラインアップ!!



■6月4日(土)発売予定
希望小売価格6,900円(税別)
ハドソン
©1994 HUDSON SOFT ©SNK/ADK 1993

■8月発売予定 価格未定
ハドソン
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―新たなる闘い―
餓狼伝説2
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©1994 HUDSON SOFT ©SNK 1992

龍虎の拳
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©1994 HUDSON SOFT ©SNK 1992

マッドストーカー
―フルメタルフォース―
■8月発売予定
希望小売価格5,800円(税別)
NECホームエレクトロニクス
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天外魔境Ⅲ(仮)
超大作RPGの続編は、アーケードカード専用で登場!
■発売日未定 価格未定 ハドソン

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